

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Previously Presented) A multilayer structure comprising a layer comprising a coextrusion binder comprising a blend comprising:

- 5 to 30 parts of a cografted polymer (A) comprising 60-95 parts by weight of a high density polyethylene (A1) of relative density 0.940-0.965 and a MFI of 0.1-3 g/10 min under 2.16 kg at 190°C and 40-5 parts by weight of a polymer (A2) of a metallocene polyethylene with 600 ppm - 6% by weight of an unsaturated carboxylic acid or its functional derivative with respect to the weight of grafted (A1) and (A2); and

- 95 to 70 parts of a polyethylene (B) of relative density 0.930-0.940 and a MFI of 5-100 g/10 min under 2.16 kg at 190°C; wherein

a blend of the polymer (A) and the polyethylene (B) having:

- a relative density of 0.930-0.940, and
- melt flow index measured according to ASTM D 1238 at 190°C/2.16 kg of between 5 and 100 g/10 min; directly attached to said binder, a layer (E) selected from the group consisting of a layer of a nitrogen-containing or oxygen-containing polar resin, a layer of polyamide resin, a layer of an aliphatic polyketone, a layer of a saponified ethylene-vinyl acetate copolymer (EVOH), a layer of a polyester resin, and a metal layer.

2. (Previously Presented) A binder according to claim 26, in which the relative density of the polymer (A) + the polyethylene (B) is between 0.930 and 0.940.

3. (Canceled)

4. (Previously Presented) A structure according to claim 1, in which either a polyolefin layer (F) or a layer (E) is directly attached on the binder side.

5. (Previously Presented) A structure according to Claim 4, respectively comprising an HDPE layer, said layer of binder, either a layer of EVOH or of an EVOH alloy or a polyamide or polyamide-based layer, a second layer of said binder and an HDPE layer.

6. (Previously Presented) A rigid hollow body made of a multilayer structure according to Claim 1.

7. (Previously Presented) A gasoline tank comprising a structure according to Claim 5.

8. (Canceled)

9. (Previously Presented) A coextrusion binder according to claim 26, wherein the polyethylene (A1) is a polyethylene homopolymer or an ethylene copolymer with a comonomer of an α -olefin having from 3 - 30 carbon atoms, an ester of an unsaturated carboxylic acid, or a vinyl ester of a saturated carboxylic acid.

10. (Canceled)

11. (Previously Presented) A multilayer structure according to claim 1, wherein the layer (E) is the polyamide resin comprising at least one structural unit of PA-6; PA-6,6; PA-6,10; PA-11; PA-6/6,6; or PA-12.

12. (Previously Presented)) A multilayer structure according to claim 1, wherein the layer (E) is the saponified ethylene-vinyl acetate copolymer having a degree of saponification of about 90 - 100 mol%.

13. (Previously Presented) A multilayer structure according to claim 1, wherein the layer (E) is the polyester resin of polyethylene terephthalate, polybutylene terephthalate, polyethylene naphthenate, or a blend thereof.

14. (Previously Presented) A multiplayer structure according to claim 1, wherein the layer (E) is a metal of aluminum, iron, copper, tin, nickel, or alloy thereof.

15. (Previously Presented) A binder according to claim 26, wherein the relative density of the polyethylene (A1) is 0.940 - 0.965.

16. (Previously Presented) A binder according to claim 1, wherein the relative density of the polyethylene (A1) is 0.940-0.958.

17. (Canceled)

18. **(Previously Presented)** A binder according to claim 1, wherein the polyethylene (B) has a relative density of 0.934-0.938.

19. **(Currently Amended)** A multilayer structure comprising a layer comprising a coextrusion binder consisting essentially of:

- 5 to 30 parts of a polymer (A) comprising a blend of a polyethylene (A1) of relative density between 0.935 and 0.980 and of a polymer (A2) a metallocene polyethylene with 600 ppm - 6% by weight of an unsaturated carboxylic acid or its functional derivative with respect to the weight of ~~grafted~~ cografted (A1) and (A2); and

- 95 to 70 parts of a polyethylene (B) of relative density between 0.930 and 0.950;

the blend of the polymer (A) and the polyethylene (B) having:

- a relative density between 0.930 and 0.950,
- a content of grafted unsaturated carboxylic acid of between 30 and 10,000 ppm, and
- a melt flow index measured according to ASTM D 1238 at 190°C/21.6 kg of

between 5 and 100; directly attached to said binder, a layer (E) selected from the group consisting of a layer of a nitrogen-containing or oxygen-containing polar resin, a layer of polyamide resin, a layer of an aliphatic polyketone, a layer of a saponified ethylene-vinyl acetate copolymer (EVOH), a layer of a polyester resin, and a metal layer.

20. **(Previously Presented)** A coextrusion binder according to claim 9, wherein said ester of an unsaturated carboxylic acid is an alkyl (meth)acrylate wherein the alkyl group has 1 to 24 carbon atoms.

21. **(Previously Presented)** A coextrusion binder according to claim 9, wherein said comonomer is propylene, 1-butene, 1-pentene, 3-methyl-1-butene, 1-hexene, 4-methyl-1-pentene, 3-methyl-1-pentene, 1-octene, 1-decene, 1-dodecene, 1-tetradecene, 1-hexadecene, 1-octadecene, 1-eicocene, 1-dococene, 1-tetracocene, 1-hexacocene, 1-octacocene, 1-triacontene, methyl methacrylate, ethyl acrylate, n-butyl acrylate, isobutyl acrylate, 2-ethylhexyl acrylate, vinyl acetate, or vinyl propionate.

22. **(Previously Presented)** A coextrusion binder according to claim 26, wherein the amounts of (A1) and (A2) are 60 to 95 parts by weight of (A1) for 40 to 5 parts by weight of (A2).

23. **(Previously Presented)** A coextrusion binder according to claim 1, wherein said unsaturated carboxylic acid has 2 to 20 carbon atoms.

24. **(Previously Presented)** A coextrusion binder according to claim 1, wherein said unsaturated carboxylic acid is an unsaturated dicarboxylic acid having 4 to 10 carbon atoms.

25. **(Previously Presented)** A coextrusion binder according to claim 1, wherein the binder contains 5 to 20 parts by weight of (A) per 95 to 80 parts by weight of (B).

26. **(Previously Presented)** A multilayer structure comprising a layer comprising a coextrusion binder produced by a process comprising blending:

- 5 to 30 parts by weight of a polymer (A) comprising cografing a blend of a polyethylene (A1) of relative density between 0.935 and 0.980 and of a polymer (A2) of a metallocene polyethylene with 600 ppm - 6% by weight of an unsaturated carboxylic acid or its functional derivative with respect to the weight of grafted (A1) and (A2); and

- 95 to 70 parts by weight of a polyethylene (B) of relative density between 0.930 and 0.950;

the polyethylene (B) having:

- a relative density between 0.930 and 0.950,
- a content of grafted unsaturated carboxylic acid of between 30 and 10,000 ppm, and

melt flow index measured according to ASTM D 1238 at 190°C/2.16 kg of between 5 and 100; directly attached to said binder, a layer (E) selected from the group consisting of a layer of a nitrogen-containing or oxygen-containing polar resin, a layer of polyamide resin, a layer of an aliphatic polyketone, a layer of a saponified ethylene-vinyl acetate copolymer (EVOH), a layer of polyester resin, and a metal layer.